Title of Instructional Materials: Macmillan-McGraw Hill

Grade Level: Grade 6

Reviewers:

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Summary of Macmillan-McGraw Hill

Overall Rating: ☐ Weak (1-2) ☐ Moderate (2-3) ☒ Strong (3-4) **Summary / Justification / Evidence:** Well developed, good problem solving.	Important Mathematical Ideas: ☐ Weak (1-2) ☐ Moderate (2-3) ☒ Strong (3-4) **Summary / Justification / Evidence:**
Skills and Procedures: ☐ Weak (1-2) ☐ Moderate (2-3) ☒ Strong (3-4) **Summary / Justification / Evidence:**	Mathematical Relationships: ☐ Weak (1-2) ☐ Moderate (2-3) ☒ Strong (3-4) **Summary / Justification / Evidence:**

Reviewed By: [redacted]

Title of Instructional Materials: McGraw-Hill - Glencoe

Documenting Alignment to the Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

PS. Investigation
Real world connections

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch 6

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

9.24-27
142-146
214-215
real world

Overall Rating

Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

- Real World examples
- NOT (Proper Order Thinking) Problems
- Reasonable Answer Job p. 184

Indicate the chapter(s), section(s), or page(s) reviewed.

p. 57-60
184-185
349-353
503

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed:

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

1 2 3 4

Reviewed By: ______________________

Title of Instructional Materials: ______________________

Documenting Alignment to the Standards for Mathematical Practice

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch 6
184-185 (repeated) - PSI - reasonable answers
401-405 - Estimating %
418-423 - customary system - length
430-431 - measurement lab - metric system
[illegible] - measurement lab - selecting formulas & units

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

1 — 2 — 3 — X — 4

Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as $2 + 7$. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

Reviewed By: ______________________

Title of Instructional Materials: ______________________

Documenting Alignment to the Standards for Mathematical Practice

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation $(y - 2)/(x - 1) = 3$. Noticing the regularity in the way terms cancel when expanding $(x - 1)(x + 1)$, $(x - 1)(x^2 + x + 1)$, and $(x - 1)(x^3 + x2 + x + 1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed:

Ch 6
p 32-36 — powers & exponents
49-53 — functions — function tables
320-321 — ratios & tangrams lab
341-348 — PST — look for a pattern

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

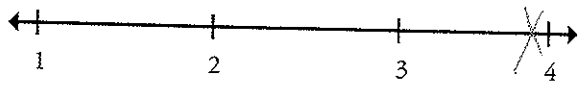
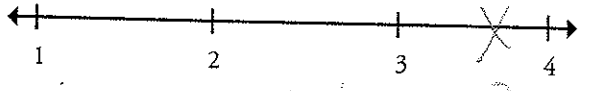
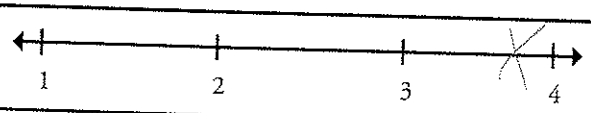
Overall Rating

1 — 2 — 3 — 4 (marked X near 4)

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. *For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 314-319	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  "What is the difference between...?" **Summary / Justification / Evidence**
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.

6.RP.2

Understand the concept of a unit rate *a/b* associated with a ratio *a:b* with $b \neq 0$, and use rate language in the context of a ratio relationship. *For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is 3/4 cup of flour for each cup of sugar." "We paid $75 for 15 hamburgers, which is a rate of $5 per hamburger."* [1]

1 Expectations for unit rates in this grade are limited to non-complex fractions.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

314-319
322-323
334-337

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas

Describe different ways to determine...

Skills and Procedures

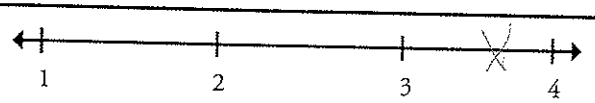
Mathematical Relationships

proportions using unit rate

Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



Reviewed By: ____________________

Title of Instructional Materials: ____________________

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
6.RP.3a 3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. a. Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios. graphing calculator w/ ratio tables ratio tables graphing calculator relationships	Important Mathematical Ideas: 1 — 2 — 3 — 4 [marked between 3 and 4] Skills and Procedures: 1 — 2 — 3 — 4 [marked between 3 and 4] Mathematical Relationships: 1 — 2 — 3 — 4 [marked between 3 and 4] **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed. 314-319 320-321 322-327 328-333 334-339 349-353 354 ~~CCSS 5-10~~ not available 14	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating: 1 — 2 — 3 — 4 [marked between 3 and 4]

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.3b 3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. b. Solve unit rate problems including those involving unit pricing and constant speed. *For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 314-319 329-333 334-339 – unit rates 340 many word problems writing in math find the error.	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: ______________________

Title of Instructional Materials: ______________________

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.

6.RP.3c

3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

   c. Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

p. 365-369

401-405

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas: 1 2 3 4

Skills and Procedures: 1 2 3 4

Mathematical Relationships: 1 2 3 4

Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating: 1 2 3 4

Reviewed By: ______________________

Title of Instructional Materials: ______________________

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
6.RP.3d 3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. d. Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities. length / MP3 player / roller coaster / bungee jumping / own foot	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed. p. 418 - 423 424 - 429 — customary 430 - 431 445 - 449 lots of story problems	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

- Publisher did an excellent job of finding examples of the standards were addressed

- VERY much like PA

- Writing, estimation, error analysis, labs embedded into lessons.

- Good "teaching" notes to lessons w/ tons of story problems short application.

Overall well very strongly written

6

Reviewed By: [redacted]

Title of Instructional Materials: Glencoe Math Connects Course 1

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 10-4 539-544	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4 **Summary / Justification / Evidence** One lesson - good example (decomposing) **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** needs more than 1 lesson Overall Rating: 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

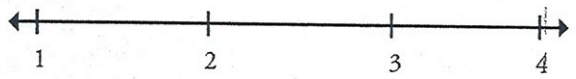
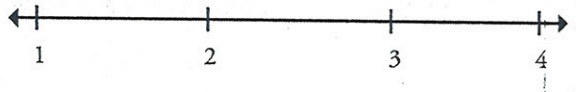
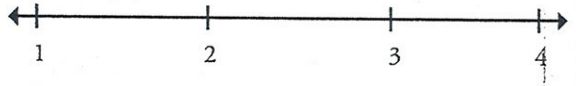
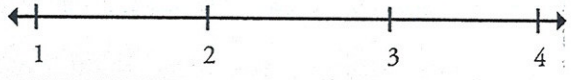
MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l\ w\ h$ and $V = b\ h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** D-6 546-553	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** good example — one known — not enough **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** not enough — Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

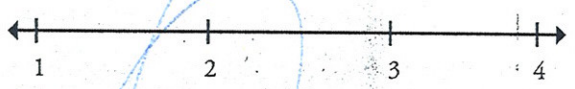
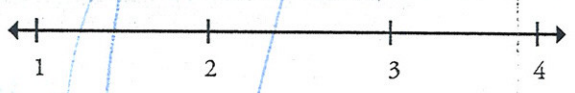
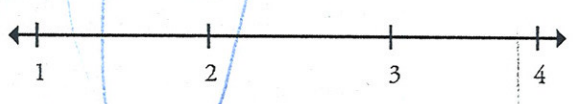
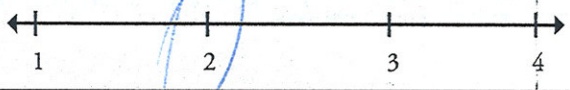
MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.4 Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** section 10-7 556 – 559	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** one lesson only **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** not enough practice or example Overall Rating 

~~Vanderwal~~

[redacted]

INDIANA'S EDUCATION ROUNDTABLE | 2010

Vanderwalle
Katherine Fosnot

6th grade

Marilyn Burns

Macmillan / McGraw-Hill
Math Connects - Course 1

Overall = 4

Like - Get ready for ISTEP section

- Main lesson ~~taught~~ not strictly skill based
- Extra skill practice in the back of the book - if needed
- Thoroughly developed

Instructional Materials Analysis and Selection

Phase 3: Assessing Content Alignment to the Common Core State Standards for Mathematics

Grade 6

Answers not obvious in problem solving
Problems + Pictures are interesting

a project of
The Charles A. Dana Center
at the University of Texas at Austin

Instructional Materials Analysis and Selection

Phase 3:

Assessing Content Alignment to the Common Core State Standards for Mathematics

A project of

The Indiana Education Roundtable, The Indiana Department of Education,

and

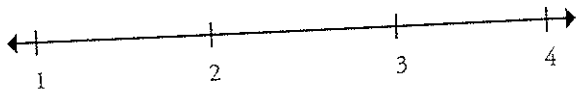
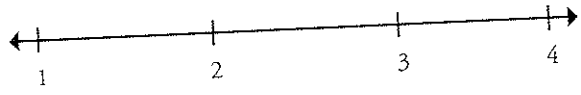
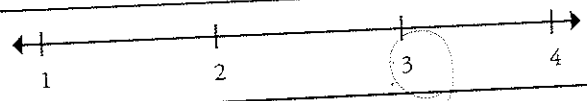
The Charles A. Dana Center at The University of Texas at Austin

2010–2011

Reviewed By: _____

Title of Instructional Materials: _____

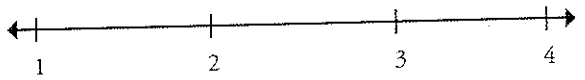
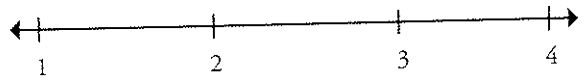
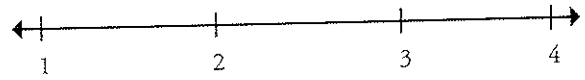
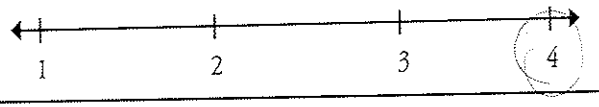
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Apply and extend previous understandings of arithmetic to algebraic expressions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.4 Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). *For example, the expressions y + y + y and 3y are equivalent because they name the same number regardless of which number y stands for.* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 12-1 12-2	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Apply and extend previous understandings of arithmetic to algebraic expressions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.3 Apply the properties of operations to generate equivalent expressions. *For example, apply the distributive property to the expression 3 (2 + x) to produce the equivalent expression 6 + 3x; apply the distributive property to the expression 24x + 18y to produce the equivalent expression 6 (4x + 3y); apply properties of operations to y + y + y to produce the equivalent expression 3y.* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 12-1 12-2 CCSS 6.3	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Apply and extend previous understandings of arithmetic to algebraic expressions.

6.EE.2c

2. Write, read, and evaluate expressions in which letters stand for numbers.
   c. Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). *For example, use the formulas $V = s^3$ and $A = 6\ s^2$ to find the volume and surface area of a cube with sides of length $s = 1/2$.*

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas 1 2 3 4

Skills and Procedures 1 2 3 4

Mathematical Relationships 1 2 3 4

Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

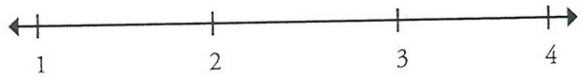
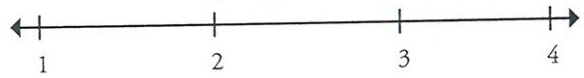
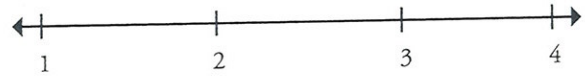
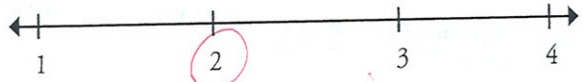
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Apply and extend previous understandings of arithmetic to algebraic expressions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.2b 2. Write, read, and evaluate expressions in which letters stand for numbers. b. Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. *For example, describe the expression 2 (8 + 7) as a product of two factors; view (8 + 7) as both a single entity and a sum of two terms.* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 1-2 1-3 1-5 12-2	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** Not sure fully developed? **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

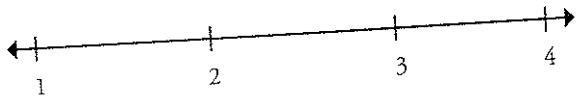
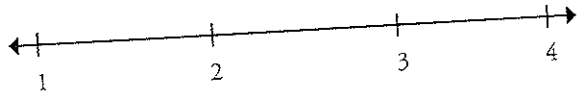
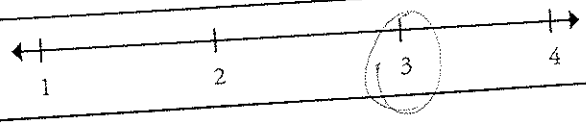
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Apply and extend previous understandings of arithmetic to algebraic expressions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.2a 2. Write, read, and evaluate expressions in which letters stand for numbers. a. Write expressions that record operations with numbers and with letters standing for numbers. *For example, express the calculation "Subtract y from 5" as 5 – y.* Not much discussion on what the expressions mean **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 1 – 6	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

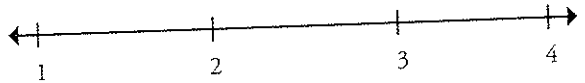
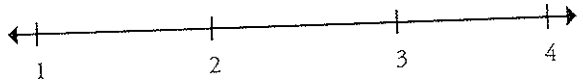
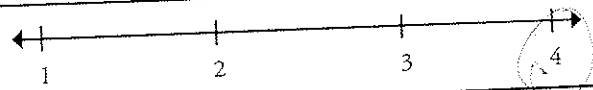
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Apply and extend previous understandings of arithmetic to algebraic expressions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.1 Write and evaluate numerical expressions involving whole-number exponents.	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** Needs?
Indicate the chapter(s), section(s), and/or page(s) reviewed. 1-3 1-4	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

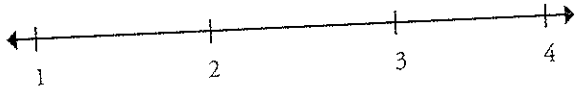
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

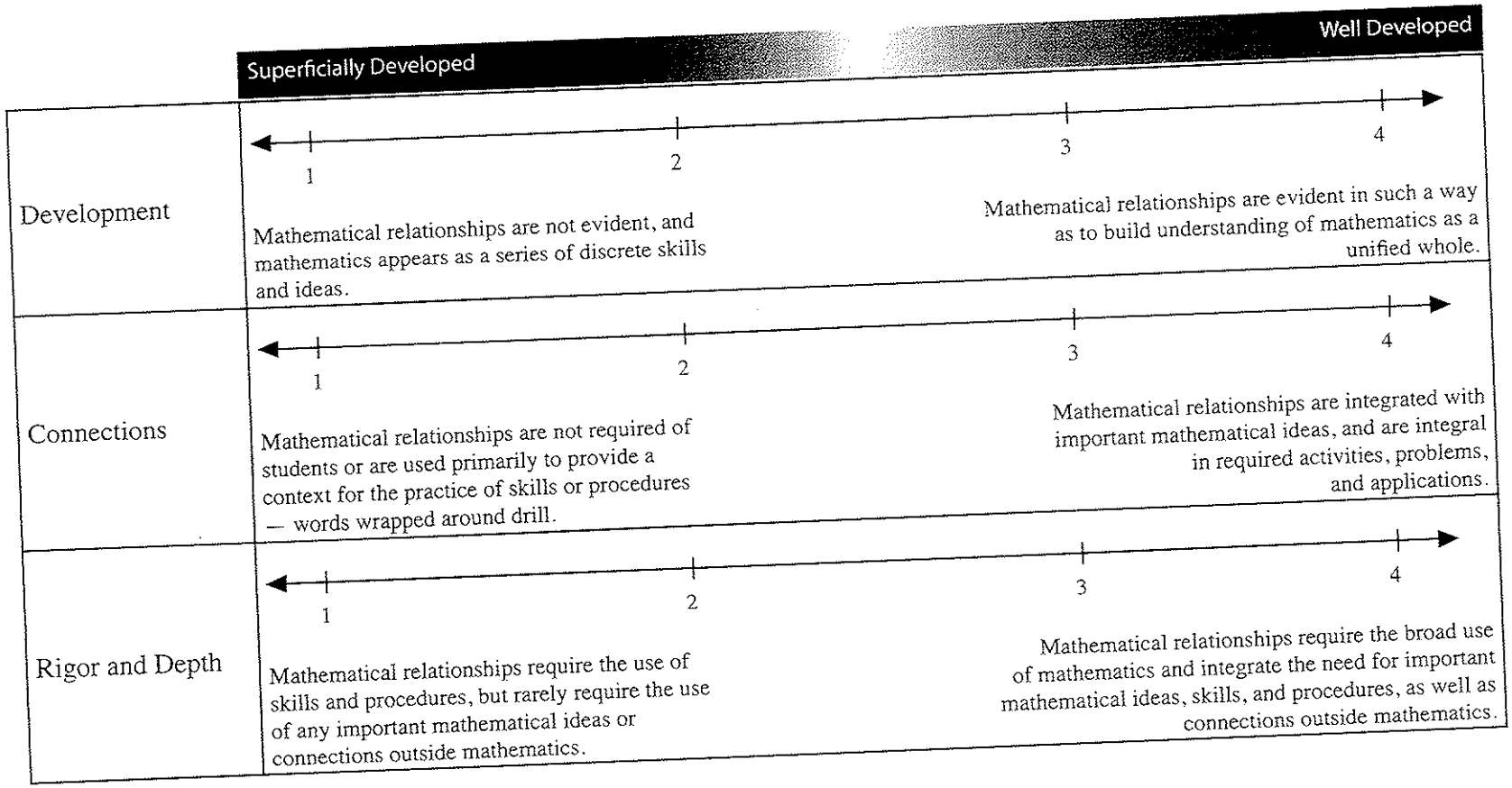
Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.7d 7. Understand ordering and absolute value of rational numbers. d. Distinguish comparisons of absolute value from statements about order. *For example, recognize that an account balance less than –30 dollars represents a debt greater than 30 dollars.*	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed.	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Mathematical Relationships: Understanding the scoring



Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them.

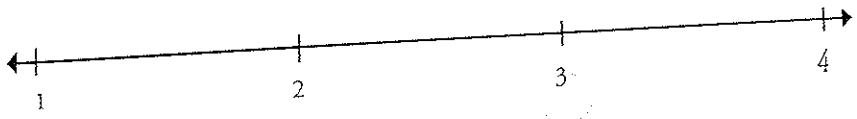
Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

2. Reason abstractly and quantitatively.

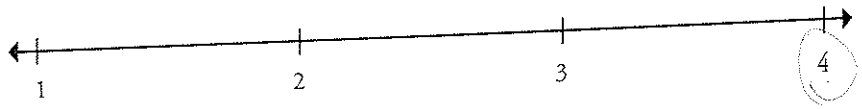
Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

3. Construct viable arguments and critique the reasoning of others.

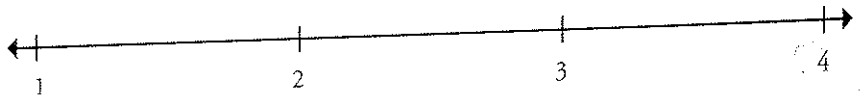
Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Need real world examples

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

5. Use appropriate tools strategically.

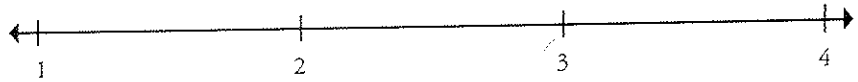
Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating

Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

7. Look for and make use of structure.

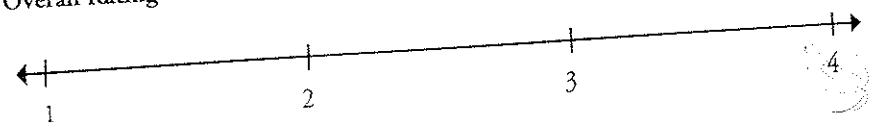
Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as $2 + 7$. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: _____

Title of Instructional Materials: _____

Documenting Alignment to the Standards for Mathematical Practice

8. Look for and express regularity in repeated reasoning.

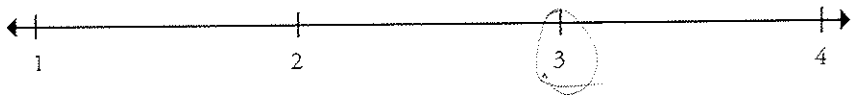
Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation $(y - 2)/(x - 1) = 3$. Noticing the regularity in the way terms cancel when expanding $(x - 1)(x + 1)$, $(x - 1)(x^2 + x + 1)$, and $(x - 1)(x^3 + x2 + x + 1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By: _____

Title of Instructional Materials: _____

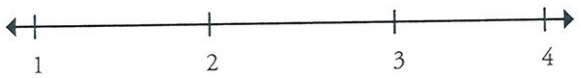
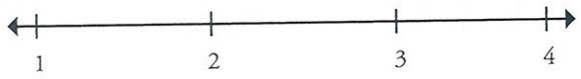
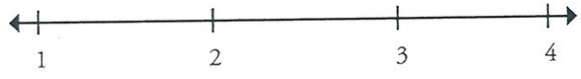
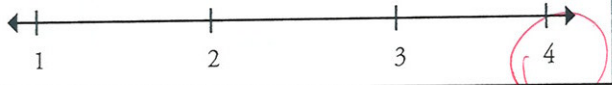
MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. *For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."* Uses a chart to organize data. Students have to make meaning of the data. Answer not obvious. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** Ch 6.1 314-319	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4 **Summary / Justification / Evidence** Problems & pictures are interesting **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating: 1 2 3 (4)

Reviewed By: _____

Title of Instructional Materials: _____

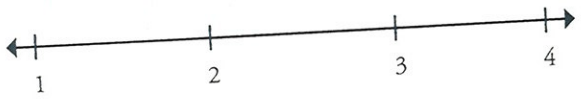
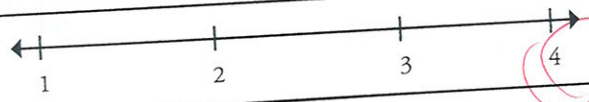
MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.2 Understand the concept of a unit rate *a/b* associated with a ratio *a:b* with $b \neq 0$, and use rate language in the context of a ratio relationship. *For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is 3/4 cup of flour for each cup of sugar." "We paid $75 for 15 hamburgers, which is a rate of $5 per hamburger."* [1] Hit problems good 1 Expectations for unit rates in this grade are limited to non-complex fractions. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 6.1 - ratios & rates 6.2 - ratio tables 6.3 - proportions 6.4 - Algebra & Solving Proportions	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** Real World Examples & Problem Solving More complex problems **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

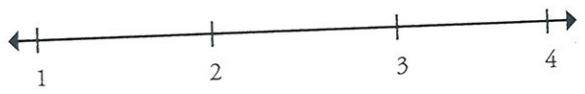
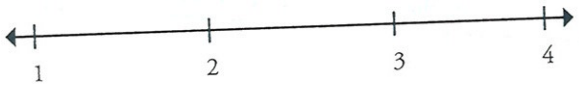
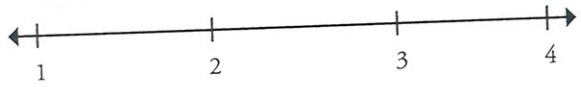
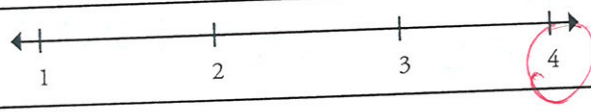
MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.3a 3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. a. Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** Still connected to Graphing
Indicate the chapter(s), section(s), and/or page(s) reviewed. 6-2 Extend 6-2. Extend 6-7 – Graphing Proportional Relationships	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

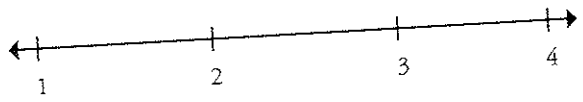
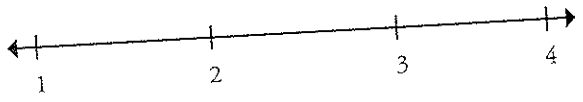
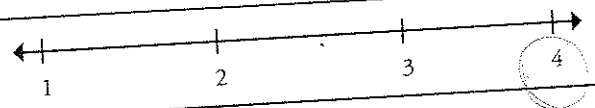
MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.3b 3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. b. Solve unit rate problems including those involving unit pricing and constant speed. *For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 6-1 6-3 6-4	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** Thoroughly developed **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.3c 3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. c. Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** not developed
Indicate the chapter(s), section(s), and/or page(s) reviewed. 7-1 7-8 CCSS 6.2	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.3d 3. Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations. d. Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 8-1 8-2 Explore 8-3 8-4	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

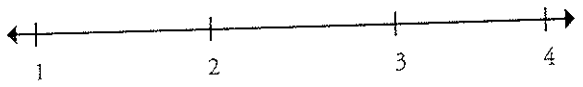
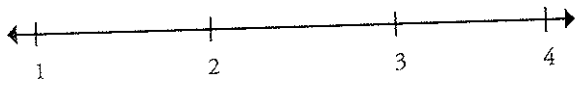
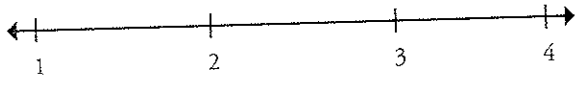
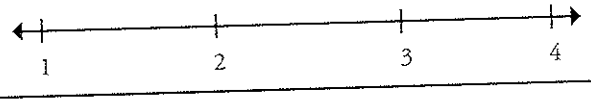
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. *For example, create a story context for (2/3) ÷ (3/4) and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that (2/3) ÷ (3/4) = 8/9 because 3/4 of 8/9 is 2/3. (In general, (a/b) ÷ (c/d) = ad/bc.) How much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 3/4-cup servings are in 2/3 of a cup of yogurt? How wide is a rectangular strip of land with length 3/4 mi and area 1/2 square mi?* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 4-1 4-5 Explore 5-9 5-9 5-10	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** Has the model **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Compute fluently with multi-digit numbers and find common factors and multiples.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.2 Fluently divide multi-digit numbers using the standard algorithm. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

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Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Compute fluently with multi-digit numbers and find common factors and multiples.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. Models Includes review subtraction across zero + multiple methods **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 3-5 +- dec 3-6 x dec 3-7 x dec 3-8 ÷ dec 3-9 ÷ dec	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

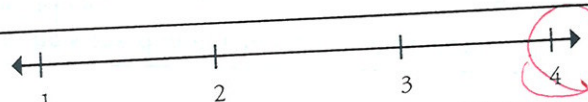
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Compute fluently with multi-digit numbers and find common factors and multiples.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor. *For example, express 36 + 8 as 4 (9 + 2).* 2 methods :) ISTEP Practice **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 4-1 4-5 12-1 12-2 12-3	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

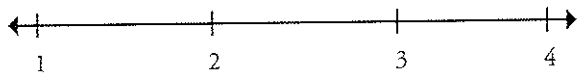
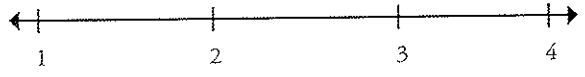
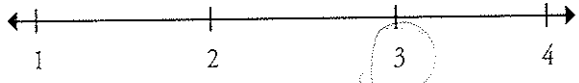
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/ negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation. Graphing of – numbers number line **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 2-9	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** Real World Probs Well developed **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.6a 6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., –(–3) = 3, and that 0 is its own opposite. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 2-9	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.6b 6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. b. Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 1-7	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

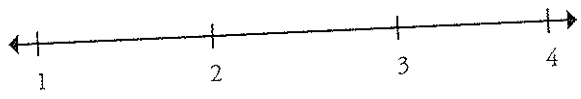
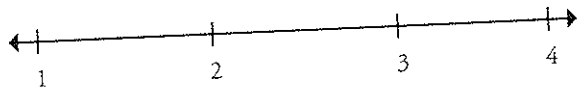
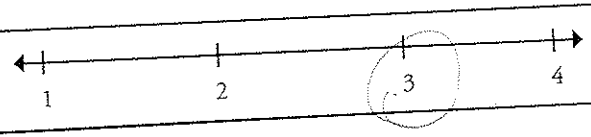
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.6c 6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. c. Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 2-9 11-7	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.7a 7. Understand ordering and absolute value of rational numbers. a. Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. *For example, interpret –3 > –7 as a statement that –3 is located to the right of –7 on a number line oriented from left to right.* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 3-2 4-4 11-1	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

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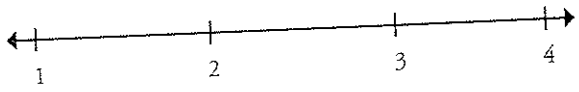
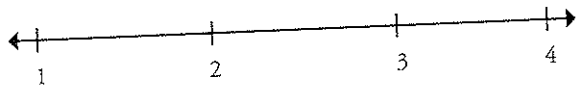
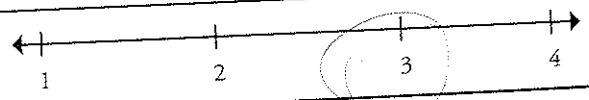
Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.7b 7. Understand ordering and absolute value of rational numbers. b. Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3\ °C > -7\ °C$ to express the fact that $-3\ °C$ is warmer than $-7\ °C$. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 3-2 4-6 11-1	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

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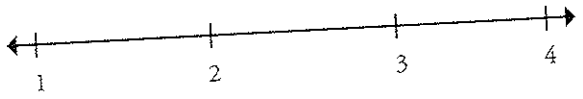
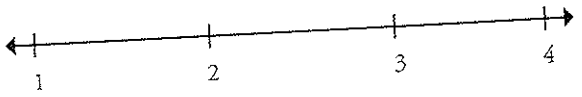
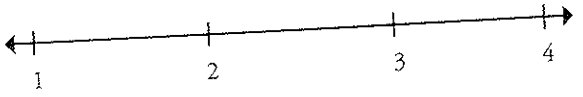
Title of Instructional Materials: _____

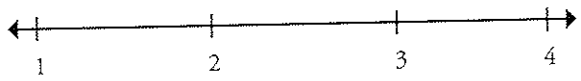
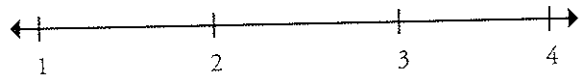
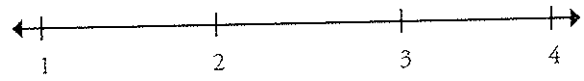
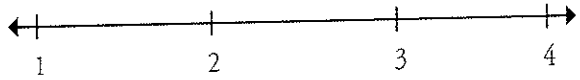
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.7c 7. Understand ordering and absolute value of rational numbers. c. Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. *For example, for an account balance of –30 dollars, write |–30| = 30 to describe the size of the debt in dollars.*	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed.	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

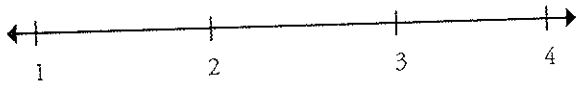
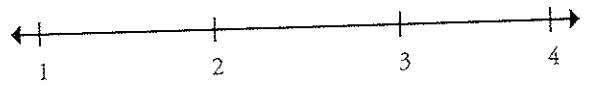
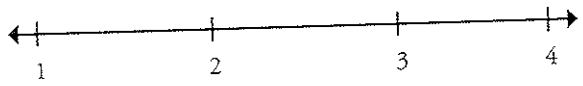
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Reason about and solve one-variable equations and inequalities.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

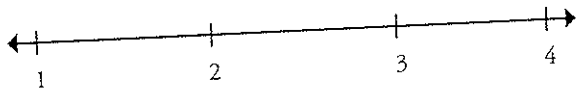
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Reason about and solve one-variable equations and inequalities.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
6.EE.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

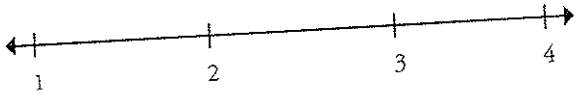
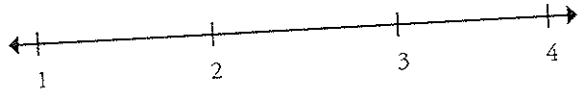
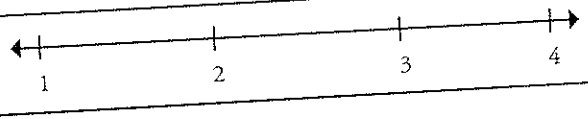
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Reason about and solve one-variable equations and inequalities.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
6.EE.7 Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p, q and x are all nonnegative rational numbers.	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed.	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

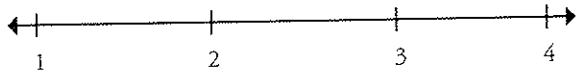
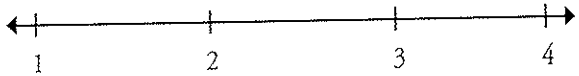
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Reason about and solve one-variable equations and inequalities.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.8 Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed.	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

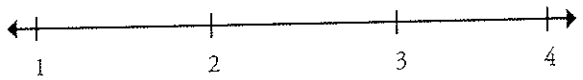
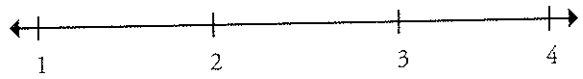
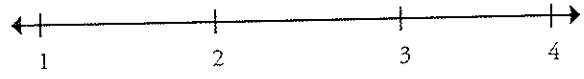
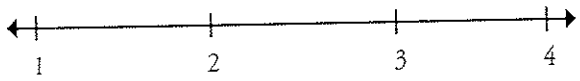
MATHEMATICS: GRADE 6 – EXPRESSIONS AND EQUATIONS – 6.EE

Represent and analyze quantitative relationships between dependent and independent variables.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.EE.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. *For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation d = 65t to represent the relationship between distance and time.* **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

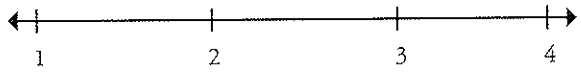
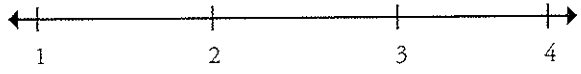
MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l\ w\ h$ and $V = b\ h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

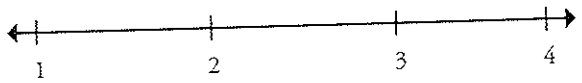
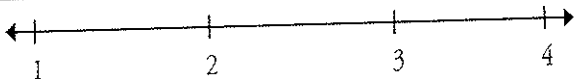
MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.4 Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

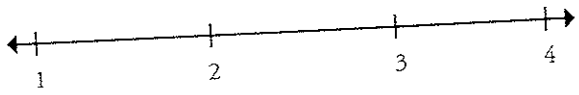
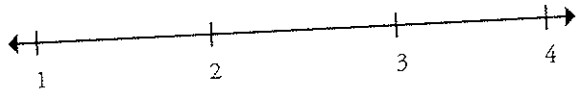
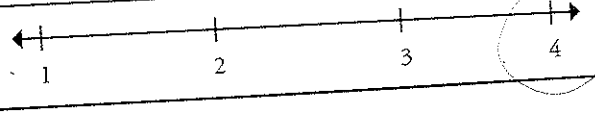
MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Develop understanding of statistical variability.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. *For example, "How old am I?" is not a statistical question, but "How old are the students in my school?" is a statistical question because one anticipates variability in students' ages.*	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed.	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Develop understanding of statistical variability.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed.	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

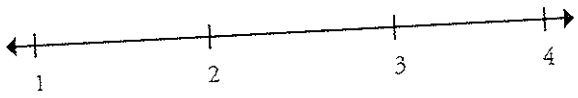
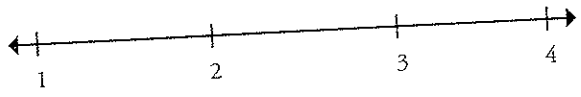
MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Develop understanding of statistical variability.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** See pg 53
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 2 3 4

Reviewed By: _____

Title of Instructional Materials: _____

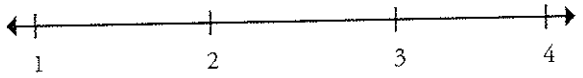
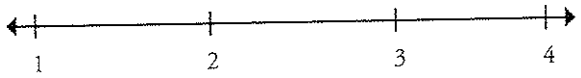
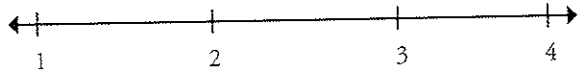
MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Summarize and describe distributions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence**
Indicate the chapter(s), section(s), and/or page(s) reviewed.	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):**
	Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

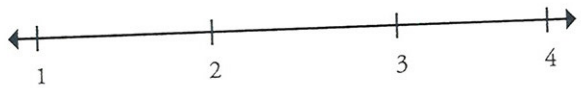
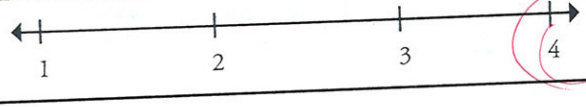
MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Summarize and describe distributions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.5a 5. Summarize numerical data sets in relation to their context, such as by: a. Reporting the number of observations. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** see p. 53 **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

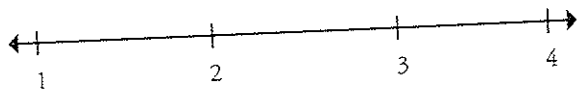
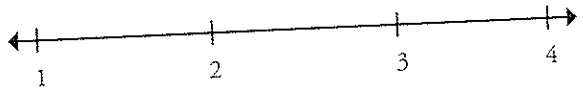
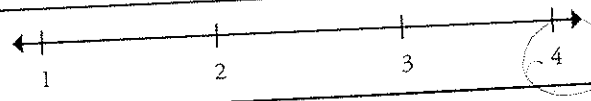
MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Summarize and describe distributions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.5b 5. Summarize numerical data sets in relation to their context, such as by: b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. **Indicate the chapter(s), section(s), and/or page(s) reviewed.**	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** Students are asked to draw conclusions and analyze data **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

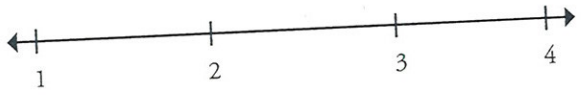
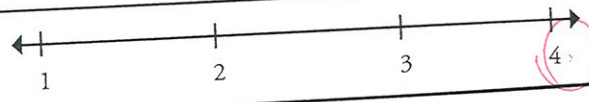
MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Summarize and describe distributions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.5c 5. Summarize numerical data sets in relation to their context, such as by: c. Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** ccss pg 57.12	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – STATISTICS AND PROBABILITY – 6.SP

Summarize and describe distributions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.SP.5d 5. Summarize numerical data sets in relation to their context, such as by: d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** CCSS LS B Pg 57-62	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects (Macmillan McGraw Hill, Glencoe/McGraw Hill)

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. *For example, create a story context for (2/3) ÷ (3/4) and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that (2/3) ÷ (3/4) = 8/9 because 3/4 of 8/9 is 2/3. (In general, (a/b) ÷ (c/d) = ad/bc.) How much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 3/4-cup servings are in 2/3 of a cup of yogurt? How wide is a rectangular strip of land with length 3/4 mi and area 1/2 square mi?* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** GCF, LCM, [illegible] FRACTIONS 197-201, 206-211, 291-292, 293-[illegible] 296-301 DIVIDING MIXED NUMBERS DIVIDING USING RECIPROCALS	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** •Students work through a logical sequence of concepts (GCF, LCM, ÷ w/ models, reciprocals, and ÷ mixed #s). • Relevant word problems are provided. **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Compute fluently with multi-digit numbers and find common factors and multiples.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.2 Fluently divide multi-digit numbers using the standard algorithm.	Important Mathematical Ideas: 1 — 2 — 3 — 4 (X marked near 1) Skills and Procedures: 1 — 2 — 3 — 4 (X marked between 1 and 2) Mathematical Relationships: 1 — 2 — 3 — 4 (X marked at 1)
Indicate the chapter(s), section(s), and/or page(s) reviewed. 744 ← NO SUCH PAGE 23, 77, 137, 571 23: 4 SIMPLE REVIEW PROBLEMS; NO INSTRUCTION (BY 1-DIGIT) 77: 6 SIMPLE PROBLEMS; ONE SIMPLE ALGORITHM (BY 1-DIGIT) 137: 6 SIMPLE PROBLEMS; ONE SIMPLE ALGORITHM (BY [illegible]) 571: 6 SIMPLE PROBLEMS; ONE SIMPLE ALGORITHM (BY 1-DIGIT)	**Summary / Justification / Evidence** • 22 PROBLEMS (MAINLY 1-DIGIT DIVISORS) APPEAR IN CHAPTER [illegible] PRETESTS
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): • NO DIRECT INSTRUCTION OF SKILL • NO [illegible] ([illegible] USED IN [illegible], ETC.) • VERY LIMITED MULTIPLE-DIGIT DIVISORS
	Overall Rating: 1 — 2 — 3 — 4 (X marked at 1)

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Compute fluently with multi-digit numbers and find common factors and multiples.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	Important Mathematical Ideas: 1 2 3 X 4 Skills and Procedures: 1 2 3 X 4 Mathematical Relationships: 1 2 3 X 4
Indicate the chapter(s), section(s), and/or page(s) reviewed. 155 – 160 ; 162 – 183	**Summary / Justification / Evidence** - +/− W/ MODELS. [illegible] OF DECIMAL [illegible] ESTIMATING, CHECKING REASONABLENESS GOOD AMOUNT OF PRACTICE · ×/÷ W/ MODELS, TWO WAYS TO DETERMINE DECIMAL PLACEMENT [illegible] (EST. OR COUNTING PLACES), DIVIDING DECIMALS BY WHOLE #'s AND BY DECIMALS PLENTY OF PRACTICE
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): I would have liked to see a bit more conceptualization of place [illegible]
	Overall Rating: 1 2 3 X 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Compute fluently with multi-digit numbers and find common factors and multiples.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor. *For example, express 36 + 8 as 4 (9 + 2).*	Important Mathematical Ideas (scale 1–4): X marked at 3 Skills and Procedures (scale 1–4): X marked between 3 and 4 Mathematical Relationships (scale 1–4): X marked at 3 **Summary / Justification / Evidence** • [illegible] GCF in effective way [illegible] • [illegible]
Indicate the chapter(s), section(s), and/or page(s) reviewed. 197–201; 216–214 [illegible] CCSS 15–16 Not in student edition • Interesting use of Venn diagrams to compare GCF • " " " number line " " LCM	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** • [illegible] [illegible]
	Overall Rating (scale 1–4): X marked at 3

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/ negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 121-125	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4 **Summary / Justification / Evidence** • VARIETY OF CONTEXTS FOR POSITIVE/NEGATIVE INTEGERS • RANGE OF STUDENT ACTIVITIES **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** • NO EXPLANATION OF THE MEANING OF ZERO Overall Rating: 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.6a 6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., –(–3) = 3, and that 0 is its own opposite. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 121-125	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** OPPOSITES SHOWN ON MODEL, DEFINED **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

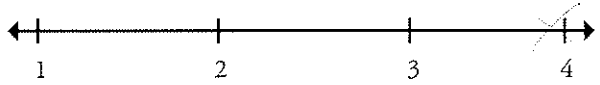
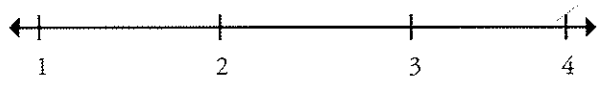
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.6b 6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. b. Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4 **Summary / Justification / Evidence** [illegible] [illegible] [illegible]
Indicate the chapter(s), section(s), and/or page(s) reviewed. [illegible]	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Does not [illegible] relationship [illegible] [illegible] Overall Rating: 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.6c 6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates. c. Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 121-125, 599-603 LA 7 - LA 6	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** • STUDENTS LOCATE POINTS PLOTTED ON HORIZONTAL LINES AND COORDINATE PLANES **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
6.NS.7a 7. Understand ordering and absolute value of rational numbers. a. Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. *For example, interpret −3 > −7 as a statement that −3 is located to the right of −7 on a number line oriented from left to right.*	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4
	Summary / Justification / Evidence • ORDERING DECIMALS • FRACTIONS • +/- WHOLE #'s } SHOWN ON # LINE
Indicate the chapter(s), section(s), and/or page(s) reviewed. 142-145, (200-224)? FRACTIONS [illegible]	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** • NUMBER LINES ARE USED MAINLY IN EXAMPLES. NOT SO MUCH IN STUDENT WORK
	Overall Rating: 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

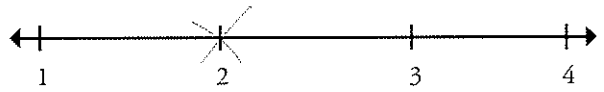
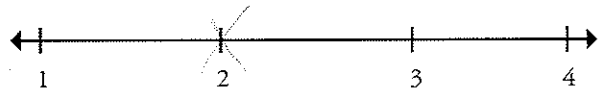
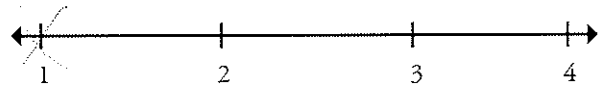
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.7b 7. Understand ordering and absolute value of rational numbers. b. Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write –3 °C > –7 °C to express the fact that –3 °C is warmer than –7 °C. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 142-145, 220-224 572-575, LA 2-LA6	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** • ORDERING REAL WORLD PROBLEMS W/ DECIMALS +/- #'S **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** • STUDENTS ARE RARELY ASKED TO EXPLAIN [illegible] Overall Rating 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.7c 7. Understand ordering and absolute value of rational numbers. c. Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. *For example, for an account balance of –30 dollars, write |–30| = 30 to describe the size of the debt in dollars.* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** LA 2 - LA 6 ? NOT IN BOOK IN 2-4	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** • SECTION ON ABSOLUTE VALUE ADDED @ BEGINNING OF BOOK **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** • NOT CONNECTED TO OTHER RELATED CONCEPTS Overall Rating 

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

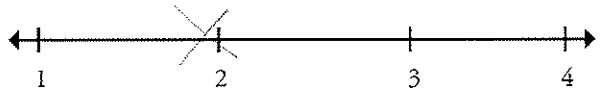
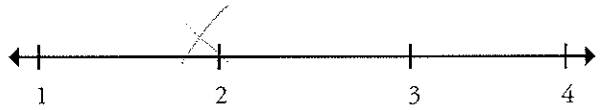
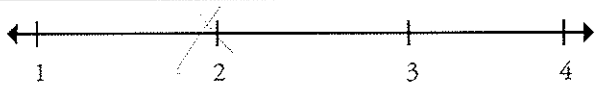
MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.7d 7. Understand ordering and absolute value of rational numbers. d. Distinguish comparisons of absolute value from statements about order. *For example, recognize that an account balance less than –30 dollars represents a debt greater than 30 dollars.* **Indicate the chapter(s), section(s), and/or page(s) reviewed.** LA 2 - LA 6 (IN 2-4)	Important Mathematical Ideas: 1 — X — 2 — 3 — 4 Skills and Procedures: 1 — X — 2 — 3 — 4 Mathematical Relationships: 1 — X — 2 — 3 — 4 **Summary / Justification / Evidence** ·Two problems in add-on section that [illegible]
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating: 1 — X — 2 — 3 — 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of numbers to the system of rational numbers.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.8 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 233 - 237, 599 - 603 CCSS 1-8	Important Mathematical Ideas  Skills and Procedures  Mathematical Relationships  **Summary / Justification / Evidence** • Students graph points in all four quadrants.
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): • Students do not find distance between points.
	Overall Rating 

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects Course 1 / Glencoe/McGraw-Hill

MATHEMATICS: GRADE 6 – THE NUMBER SYSTEM – 6.NS

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.NS.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. *For example, create a story context for (2/3) ÷ (3/4) and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that (2/3) ÷ (3/4) = 8/9 because 3/4 of 8/9 is 2/3. (In general, (a/b) ÷ (c/d) = ad/bc.) How much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 3/4-cup servings are in 2/3 of a cup of yogurt? How wide is a rectangular strip of land with length 3/4 mi and area 1/2 square mi?*	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4 **Summary / Justification / Evidence** integrated skill and procedures few investigations more rigor needed
Indicate the chapter(s), section(s), and/or page(s) reviewed. 197-219 GCF/LCM 156-190 +, −, ×, ÷ decimals 291-301 ÷ fract 121-125 Integers 572-575 ordering integers	**Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** 6.NS.2 6.NS.1 - visual fraction model relationships between mult + div of fract 6.NS.6b 6.NS.7c interpret + explain
	Overall Rating: 1 2 3 4 (3)

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects Course 1

MATHEMATICS: GRADE 6 – RATIOS AND PROPORTIONAL RELATIONSHIPS – 6.RP

Understand ratio concepts and use ratio reasoning to solve problems.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.RP.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. *For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."* Added 1.5 in and highlighted standard to be left out in crosswalk **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 314 - 355 Ch 6 419 - 447 Ch 8	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4 **Summary / Justification / Evidence** connects to other math. ideas H.O.T. Problems - provides more rigor w/reasoning **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** 6.RP.3b constant speed Did not develop rate reasoning to conversion graphs. Overall Rating: 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 10-4 539-544	Important Mathematical Ideas: 1 2 3 4 Skills and Procedures: 1 2 3 4 Mathematical Relationships: 1 2 3 4 **Summary / Justification / Evidence** Only one lesson w good examples, but not nearly enough rigor + depth **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating: 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l\,w\,h$ and $V = b\,h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 10-6 p. 548	Important Mathematical Ideas: 1 2 3 4 (X at 2) Skills and Procedures: 1 2 3 4 (X at 2) Mathematical Relationships: 1 2 3 4 (X at 2) **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** 1 lesson - filled w lots of examples - not enough practice, rigor or depth Overall Rating: 1 2 3 4 (X at 2)

Reviewed By: _____

Title of Instructional Materials: _____

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** ~~10-6~~ Supplement ~~p. 548~~ Les 8 p. 31 1 lesson	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3 4 **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** Overall Rating 1 2 3 4

Reviewed By: [redacted]

Title of Instructional Materials: Math Connects / Glencoe

MATHEMATICS: GRADE 6 – GEOMETRY – 6.G

Solve real-world and mathematical problems involving area, surface area, and volume.	**Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.**
6.G.4 Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems. **Indicate the chapter(s), section(s), and/or page(s) reviewed.** 10 + 7 editions 554-559	Important Mathematical Ideas: 1 2 3 4 (X at 2) Skills and Procedures: 1 2 3 4 (X at 2) Mathematical Relationships: 1 2 3 4 (X at 2) **Summary / Justification / Evidence** **Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):** one lesson - good skills + examples - lacks rigor + depth Overall Rating: 1 2 3 4 (X at 2)